

Ryszard Horodecki

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

16,298
citations

168829

31
h-index

198040

52
g-index

55
all docs

55
docs citations

55
times ranked

6427
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Non-Perfect Propagation of Information to a Noisy Environment with Self-Evolution. Entropy, 2022, 24, 467. | 1.1 | 1 |
| 2 | Activating Hidden Metrological Usefulness. Physical Review Letters, 2020, 125, 020402. | 2.9 | 14 |
| 3 | Closed timelike curves and the second law of thermodynamics. Physical Review A, 2019, 99, . | 1.0 | 4 |
| 4 | Do black holes create polyamory?. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 5 |
| 5 | Measurement uncertainty from no-signaling and nonlocality. Physical Review A, 2017, 96, . | 1.0 | 5 |
| 6 | Nonsignaling quantum random access-code boxes. Physical Review A, 2015, 92, . | 1.0 | 8 |
| 7 | Intrinsic asymmetry with respect to adversary: a new feature of Bell inequalities. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 424016. | 0.7 | 2 |
| 8 | Can Communication Power of Separable Correlations Exceed That of Entanglement Resource?. Physical Review Letters, 2014, 112, 140507. | 2.9 | 21 |
| 9 | Separability in terms of a single entanglement witness. Physical Review A, 2013, 88, . | 1.0 | 9 |
| 10 | Conjectured strong complementary-correlations tradeoff. Physical Review A, 2013, 88, . | 1.0 | 15 |
| 11 | Postulates for measures of genuine multipartite correlations. Physical Review A, 2011, 83, . | 1.0 | 67 |
| 12 | Inseparability criteria based on matrices of moments. Physical Review A, 2009, 80, . | 1.0 | 60 |
| 13 | Quantum entanglement. Reviews of Modern Physics, 2009, 81, 865-942. | 16.4 | 6,975 |
| 14 | No-Local-Broadcasting Theorem for Multipartite Quantum Correlations. Physical Review Letters, 2008, 100, 090502. | 2.9 | 361 |
| 15 | Entanglement-redistribution boxes. Physical Review A, 2008, 78, . | 1.0 | 0 |
| 16 | Entanglement-swapping boxes and their communication properties. Physical Review A, 2008, 77, . | 1.0 | 3 |
| 17 | Publisher's Note: No-Local-Broadcasting Theorem for Multipartite Quantum Correlations [Phys. Rev. Lett.100, 090502 (2008)]. Physical Review Letters, 2008, 100, . | 2.9 | 5 |
| 18 | QUANTUMNESS OF ENSEMBLE FROM NO-BROADCASTING PRINCIPLE. International Journal of Quantum Information, 2006, 04, 105-118. | 0.6 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Separability of Mixed Quantum States: Linear Contractions and Permutation Criteria. Open Systems and Information Dynamics, 2006, 13, 103-111. | 0.5 | 78 |
| 20 | Common Origin of No-Cloning and No-Deleting Principles Conservation of Information. Foundations of Physics, 2005, 35, 2041-2049. | 0.6 | 19 |
| 21 | Irreversibility for All Bound Entangled States. Physical Review Letters, 2005, 95, 190501. | 2.9 | 66 |
| 22 | Local versus nonlocal information in quantum-information theory: Formalism and phenomena. Physical Review A, 2005, 71, . | 1.0 | 389 |
| 23 | Optimal strategy for a single-qubit gate and the trade-off between opposite types of decoherence. Physical Review A, 2004, 70, . | 1.0 | 51 |
| 24 | Thermodynamics of Quantum Information Systems – Hamiltonian Description. Open Systems and Information Dynamics, 2004, 11, 205-217. | 0.5 | 96 |
| 25 | Mutually exclusive aspects of information carried by physical systems: Complementarity between local and nonlocal information. Physical Review A, 2003, 68, . | 1.0 | 38 |
| 26 | Are There Phase Transitions in Information Space?. Physical Review Letters, 2003, 90, 010404. | 2.9 | 9 |
| 27 | Local Information as a Resource in Distributed Quantum Systems. Physical Review Letters, 2003, 90, 100402. | 2.9 | 135 |
| 28 | Are the Laws of Entanglement Theory Thermodynamical?. Physical Review Letters, 2002, 89, 240403. | 2.9 | 83 |
| 29 | Dynamical description of quantum computing: Generic nonlocality of quantum noise. Physical Review A, 2002, 65, . | 1.0 | 82 |
| 30 | Thermodynamical Approach to Quantifying Quantum Correlations. Physical Review Letters, 2002, 89, 180402. | 2.9 | 442 |
| 31 | Concurrence in arbitrary dimensions. Journal of Modern Optics, 2002, 49, 1289-1297. | 0.6 | 46 |
| 32 | Balance of information in bipartite quantum-communication systems: Entanglement-energy analogy. Physical Review A, 2001, 63, . | 1.0 | 18 |
| 33 | Dynamics of quantum entanglement. Physical Review A, 2001, 65, . | 1.0 | 285 |
| 34 | Separability of n-particle mixed states: necessary and sufficient conditions in terms of linear maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 283, 1-7. | 0.9 | 143 |
| 35 | Asymptotic Manipulations of Entanglement Can Exhibit Genuine Irreversibility. Physical Review Letters, 2000, 84, 4260-4263. | 2.9 | 33 |
| 36 | Local environment can enhance fidelity of quantum teleportation. Physical Review A, 2000, 62, . | 1.0 | 140 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Unified Approach to Quantum Capacities: Towards Quantum Noisy Coding Theorem. Physical Review Letters, 2000, 85, 433-436. | 2.9 | 52 |
| 38 | Limits for Entanglement Measures. Physical Review Letters, 2000, 84, 2014-2017. | 2.9 | 283 |
| 39 | Binding entanglement channels. Journal of Modern Optics, 2000, 47, 347-354. | 0.6 | 58 |
| 40 | Einstein-Podolsky-Rosen paradox without entanglement. Physical Review A, 1999, 60, 4144-4145. | 1.0 | 13 |
| 41 | Entanglement processing and statistical inference: The Jaynes principle can produce fake entanglement. Physical Review A, 1999, 59, 1799-1803. | 1.0 | 62 |
| 42 | Bound Entanglement Can Be Activated. Physical Review Letters, 1999, 82, 1056-1059. | 2.9 | 292 |
| 43 | General teleportation channel, singlet fraction, and quasidistillation. Physical Review A, 1999, 60, 1888-1898. | 1.0 | 713 |
| 44 | Are there basic laws of quantum information processing?. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 244, 473-481. | 0.9 | 25 |
| 45 | Mixed-State Entanglement and Distillation: Is there a "Bound" Entanglement in Nature?. Physical Review Letters, 1998, 80, 5239-5242. | 2.9 | 942 |
| 46 | Generalized quantum measurements and local realism. Physical Review A, 1998, 58, 1694-1698. | 1.0 | 17 |
| 47 | Universal Quantum Information Compression. Physical Review Letters, 1998, 81, 1714-1717. | 2.9 | 79 |
| 48 | Inseparable Two Spin-1/2 Density Matrices Can Be Distilled to a Singlet Form. Physical Review Letters, 1997, 78, 574-577. | 2.9 | 345 |
| 49 | Information-theoretic aspects of inseparability of mixed states. Physical Review A, 1996, 54, 1838-1843. | 1.0 | 419 |
| 50 | Teleportation, Bell's inequalities and inseparability. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 222, 21-25. | 0.9 | 190 |
| 51 | Separability of mixed states: necessary and sufficient conditions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 223, 1-8. | 0.9 | 3,050 |
| 52 | Informationally coherent quantum systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 187, 145-150. | 0.9 | 26 |
| 53 | Binding entanglement channels. , 0, . | | 4 |
| 54 | Zero-knowledge convincing protocol on quantum bit is impossible. Quantum - the Open Journal for Quantum Science, 0, 1, 41. | 0.0 | 2 |